Progress Report:

Team QuadCore

8 July

CP-1 1:00 PM

- Basic setup of react with boilerplate code
- Login page frontend code with mock api calls(backend yet to be done)
- Not Found Page(in case of 404) frontend code

CP-2 2:00 PM

- Trained YOLOV8 on Roboflow dataset to detect 2 classes of accidents 'NormalAccident' , 'SevereAccident'.
- Uploaded accident videos for testing

CP-3 4:00 PM

- Coded accident.py file , which makes use of the trained accident detection model and the base YOLOV8 to detect the type of the accident and the type of vehicle involved.
- Returns the frame at which the accident took place and the track_id of the vehicle and saves it to json file.

CP-4 6:00 PM

- Completed the frontend for signup page(with mock backend api calls), homepage design
- Also completed police dashboard frontend with mock data

CP-5 8:00 PM

- Trained a YOLOv8-based model for automatic license plate detection and number extraction and integrated Optical Character Recognition (OCR) to extract license numbers from detected plates.
- Validated model accuracy with multiple test cases (different vehicle types, lighting conditions).
- In Progress: Integrating this data into the backend (Django dashboard) for police access.

9th July

CP-1 2:00 PM

-Added hospital dashboard frontend with mock backend api

- Added backend logic for users in django

- Added code for speed detection in vehicles

-Created flask and react frontend to upload cctv footage for the prototype

CP-2 4:00 PM

-Updated hospital dashboard frontend to display image

-Records accident accepted in the hospital dashboards.

CP-3 11:00 PM

-Integrated Django backend and Flash backend

-Added map view for easier location

-Completed police dashboard